


IPv6 Readiness Report

ambilan.mypolycc.edu.my — ambilan.mypolycc.edu.my

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Report generated from National IPv6 Readiness Monitor — <https://ipv6.my6.my>

Audit trail: <https://ipv6.my6.my/audit/df18b44a-31b6-4531-b64e-6f3b053325be>

 Non-Compliant <small>MGv6C-1.0</small>	15% No IPv6 Support	IPv6-ONLY READINESS Website: X Not Ready DNS: X Not Ready Email: X Not Ready
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IPv4 ADDRESSES 103.42.206.181

Network Information (WHOIS / RDAP)

IPv4 Network	
Organization	MAMPU_PDSA2
Country	MY
ASN	AS141201
ASN Name	JDN-AS-MY Jabatan Digital Negara JDN, MY
Network (CIDR)	103.42.206.128/26

Web Services (35%) 0 / 8			
#	CHECK	RESULT	DETAIL
1	AAAA Record	FAIL	No AAAA record found in DNS.
2	Globally Routable IPv6	FAIL	IPv6 address is not globally routable.
3	HTTP over IPv6	FAIL	HTTP is not accessible over IPv6.
4	HTTPS over IPv6	FAIL	HTTPS is not accessible over IPv6.
5	IPv6-Only Reachability	FAIL	Site is not reachable when limited to IPv6-only.
6	TLS Certificate Valid (IPv6)	FAIL	TLS certificate is invalid, expired, or hostname mismatch over IPv6.
7	Dual-Stack (IPv4 + IPv6)	FAIL	Domain is IPv6-only or IPv4-only.
8	HTTP/3 (QUIC)	FAIL	No HTTP/3 support detected.

DNS & DNSSEC (25%) 0 / 5			
#	CHECK	RESULT	DETAIL
1	NS Has AAAA Record	FAIL	No nameserver has an AAAA record.
2	NS Reachable via IPv6	FAIL	No nameserver is reachable over IPv6.
3	NS Answers Queries via IPv6	FAIL	Nameserver does not answer queries over IPv6.
4	DNSSEC Validated	FAIL	DNSSEC validation failed or zone is unsigned.
5	Reverse DNS (PTR)	FAIL	No PTR record found.
6	DS Record at Parent	FAIL	No DS record at parent.
7	RRSIG Valid	FAIL	No valid RRSIG found.
8	Signing Algorithm	INFO	No DNSKEY record found.

Email Services (25%) 0 / 6

#	CHECK	RESULT	DETAIL
1	MX Record Exists	FAIL	No MX record found in DNS.
2	MX Server Has IPv6	FAIL	MX server has no IPv6 address.
3	SMTP Reachable via IPv6	FAIL	SMTP is not reachable over IPv6.
4	STARTTLS over IPv6	FAIL	STARTTLS not available over IPv6.
5	SPF Record	FAIL	No SPF record found.
6	DKIM Selector	INFO	No common DKIM selector found.
7	DMARC Record	FAIL	No DMARC record found.

IPv4 Baseline (15%) 3 / 3

#	CHECK	RESULT	DETAIL
1	A Record	PASS	103.42.206.181
2	HTTP over IPv4	PASS	HTTP (port 80) responds over IPv4 — 54ms TTFB.
3	HTTPS over IPv4	PASS	HTTPS (port 443) responds over IPv4 — 15ms TTFB.

Audit Trail & Evidence Record

Verification ID	df18b44a-31b6-4531-b64e-6f3b053325be
Domain	ambilan.mypolycc.edu.my
Check Mode	Manual
Status	Completed
Started	07 Mar 2026, 01:13:20 MYT
Finished	07 Mar 2026, 01:13:23 MYT
Test Node Profile	dual stack
Engine Version	2.0.0
MGv6C Version	1.0.0
Audit URL	https://ipv6.my6.my/audit/df18b44a-31b6-4531-b64e-6f3b053325be

Integrity Verification

<p>✓ INTEGRITY VERIFIED</p>	
Algorithm	hmac-sha256-v1
Root Hash	d50af3b7f9c072333c88d62427ab2c5cf046d966f1783cbd53fe5392a1e062e1
http_headers	39f887d451f6ac2b584df81fa25d30deb5b6a0229f3a0cf5b557a09ef5328f4
dns_responses	257e74ba378fdd80607c24015f0a9a74dc385f4b637e6efbee6a7bfc6a8b337a
tls_handshake	0137cb0343437ab2db58ab3936b04a484d8d88ba96532c38d031377dacc3fc43
connectivity_log	70686dfe94930a5651a10a916e813631b1ecbb2ad674e239d3153476527813ea
dns_resolution_times	18e97c07862337cb2c0eb61df30e4dd0f4c34d59debe6eed9b061e1baeb028a7

Test Node Identity

Os	Linux srv1440888 6.8.0-101-generic #101-Ubuntu SMP PREEMPT_DYNAMIC Mon Feb 9 10:15:05 UTC 2026 x86_64
Hostname	srv1440888
Php Version	8.3.30
Server Ipv4	76.13.221.142
Server Ipv6	2a02:4780:5e:2789::1

DNS Resolution Performance

Comparison of A (IPv4) vs AAAA (IPv6) query times across resolvers and transports. Shows median (p50) and 95th percentile (p95) of 3 samples per tuple.

Resolver	Transport	A p50 (ms)	A p95 (ms)	AAAA p50 (ms)	AAAA p95 (ms)	Delta (ms)
System	Default	16.9	17.81	7.95	17.99	-9
Google	IPv4	13.92	34.3	37.21	42.86	+23.3
Google	IPv6	24.99	37.4	29.03	33.12	+4
Cloudflare	IPv4	20.29	20.62	21.11	21.93	+0.8
Cloudflare	IPv6	8.91	31.35	29.57	36	+20.7

DNS Evidence

A

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 58832
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; ANSWER SECTION:
ambilan.mypolycc.edu.my. 12298 IN A 103.42.206.181
```

DS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 33349
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
mypolycc.edu.my. IN SOA ns1.mypolycc.edu.my. admin.dnsvault.net. 2601230005 10800 3600 604800 86400
```

MX

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 31303
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
mypolycc.edu.my. IN SOA ns1.mypolycc.edu.my. admin.dnsvault.net. 2601230005 10800 3600 604800 86400
```

NS

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 12319
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
mypolycc.edu.my. IN SOA ns1.mypolycc.edu.my. admin.dnsvault.net. 2601230005 10800 3600 604800 86400
```

TXT

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 44874
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
mypolycc.edu.my. IN SOA ns1.mypolycc.edu.my. admin.dnsvault.net. 2601230005 10800 3600 604800 86400
```

AAAA

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 19532
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
mypolycc.edu.my. IN SOA ns1.mypolycc.edu.my. admin.dnsvault.net. 2601230005 10800 3600 604800 86400
```

RRSIG

DNSKEY

```
;; Got answer:
;; -->HEADER<<- opcode: QUERY, status: NOERROR, id: 63336
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1
```

```
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; AUTHORITY SECTION:
mypolycc.edu.my. 1800 IN SOA ns1.mypolycc.edu.my. admin.dnsvault.net. 2601230005 10800 3600 604800 86400
```

DNSSEC_VALIDATION

```
;; resolution failed: ncache nxrrset
; negative response, unsigned answer
; ambilan.mypolycc.edu.my. 1800 IN \-SOA; -$NXRRSET
; mypolycc.edu.my. SOA ns1.mypolycc.edu.my. admin.dnsvault.net. 2601230005 10800 3600 604800 86400
```


TLS Handshake Evidence

IPV4 Connection

IP Used	103.42.206.181
IP Version	4

```
depth=2 OU = GlobalSign Root CA - R3, O = GlobalSign, CN = GlobalSign
verify return:1
depth=1 C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
verify return:1
depth=0 C = MY, ST = PUTRAJAYA, L = PUTRAJAYA, O = JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI, CN = *.mypolycc.edu.my
verify return:1
CONNECTED(00000010)
...
Certificate chain
0 s:C = MY, ST = PUTRAJAYA, L = PUTRAJAYA, O = JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI, CN = *.mypolycc.edu.my
i:C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Mar 24 04:16:09 2025 GMT; NotAfter: Apr 25 04:16:08 2026 GMT
-----BEGIN CERTIFICATE-----
MIIGfzCCBwEgAwIBAgITMEXEKuZbd9NwMC32tMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCxYRAu
BgNVBAYTAkZFRMRkwFwYDVQQKEwBhG9iYXxTaWduIFJ1b3Q0EgLSB5MzE2MDlaFw0y
bG9iYXxTaWduIFJ1b3Q0EgLSB5MzE2MDlaFw0y
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HGYDVR0LBBYwFAYIKwYBBQUHAwEGCsGAQUFBwMCM8BGA1UdIwQYMBaAFjPjvf/LN
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b3aZpB6J57vVDj3do6G0xCZ21zDGsJS2XbLAn4zvKf4MJZk=
-----END CERTIFICATE-----
1 s:C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
i:OU = GlobalSign Root CA - R3, O = GlobalSign, CN = GlobalSign
a:PKKEY: rsaEncryption, 2048 (bit); sigalg: RSA-SHA256
v:NotBefore: Nov 21 00:00:00 2018 GMT; NotAfter: Nov 21 00:00:00 2028 GMT
-----BEGIN CERTIFICATE-----
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m48sG30XUJbkzbqyWgIghHx/LyEflJw5B09nEuWuDLkvs2IT90JJ4CtTLgVhmbQw
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zzFjzGUPXMsY5NX5L2LQ+8IFrZKsL70KglZnXfCYwLru93Qkx0/Yc77JT2ABBSk
b3aZpB6J57vVDj3do6G0xCZ21zDGsJS2XbLAn4zvKf4MJZk=
-----END CERTIFICATE-----
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HgYDVQQLExdHbG9iYXxTaWduIFJ1b3Q0EgLSB5MzE2MDlaFw0y
U2lnbjETMBEGA1UEAxMkR2xvYmF5U2lnbjAeFw0xODExMjEwMDAwMDBaFw0yODEx
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EgLSB5MzE2MDlaFw0y
NjA0MjUwNDE2MDhaMIGMMQswCQYDVQQGEwJNTWESMBAGA1UECBMjVUuUkFQ0VlB
MRlWEAyDVQHEwLQVVR5OUjBwUExOTA3BgNVBAoTMEpBQkFQU04gUEVORELESUth
TlB0T0xJVEVLTkLLIERBTlB0T0xFSiBLT01VTkLUStEaMBGAIUEAwRKi5teXBv
bHljYy5lZHUubXkwggEiMA0GCSqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQCxYRAu
s7hVvoQ2WkPNE/wSZ6BbzVwzC3dB7Zho7s1ewGhg01uJciEvr8hacR/4X/k7a
XoaFveSaFy9zvMcuWLCuKeNff9JeZdkXoufS52ALA1ZwXfe7HKs3fDvHW6EpcBjS
AYaxVEYtmIVKj/d8xFOmJLghF8uqwr5WrqIUZMaIKRxsrNVXai6iECmjbejVVeJ
qCD6dizHlUuwbfVtDikWjY0ZFK5XKb6rBGKev3MjX1MnEXPoFdWsd/0hUIrplUwN
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Y3VyZS5nbG9iYXxzaWduLmNvbS9yYWNlcnQvZ3Nyc2VmdnNzbGhMjA0OC5jcnQw
NwYTKwYBBQUHMAAGK2h0dHA6Ly9yY3NwLmNvbS9yYWNlcnQvZ3Nyc2VmdnNzbGhMjA0
c2xjYTIwMTgwVgYDVROgBE8wTTBBBgkrBgEEAAyARQwNDAYBggrBgEFBQcCARYm
aHR0cHM6Ly93d3cuZ2xvYmFsc2lubi5jb20vcmluZ3NpdG9yS8wCAYGZ4EMAQIC
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HGYDVR0LBBYwFAYIKwYBBQUHAwEGCsGAQUFBwMCM8BGA1UdIwQYMBaAFjPjvf/LN
eGeo3m+PJI2I8YcDARPrMB0GA1UdDgQWBBS03giZ8o1L0nnH2IBszpb3Jrrrb2JCC
AX0GCSisGAQOB1nkCBAIEggFtBIIBaQFNAHYAZBHEBkQ57KeJHKIClgC8q08oB90E
NSer6v7VA8l9zFAAAGVxL2lLwAABAMARzBFAiAVS23i6aABIBrIRXzJdKwDo0cf
c72fh55CqnE0bC/BBQIhA00x1GkvQB0i0K4H4MuEcepGensEwaKJI87X5yMpmKQq
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RzBFAiByc0XwKw/C3nNspSv0yUmaNnUgeB17c0QhgSwTCgHhANW8s0+6Uwas
O/hthgDcxF99hB9SKfC0xh7ITJZ7EGdAHUAJ5+Uwisp6W6f0RpyBytpXFtS/5sep
DSVAu/zcUexN7gsAAAGVxL2JLQAABAMARjBEA1B+VSfN02jdUTc6e15bVcGLewmf
m48sG30XUJbkzbqyWgIghHx/LyEflJw5B09nEuWuDLkvs2IT90JJ4CtTLgVhmbQw
DQYJkoZiHvcNAQEELBQADggEBAByM7x3eW5mkgDKk2Dgdkb/QFtHFceFBjZ/0WJ0
LHUAWxc8GVgdz29h0NNqLPKKS1ni8b04JdmzGyqe0ejwK10NjdGgCTHW7PbyMMAU
ATwtMEKScuAXADwLwsrmeS0VcPjZg7Cch/v7JRvjqXHRKndAigsPH/Ucc30xHhD2
uuvlVjAd6sfsYbMUsfGqczuA9PYLV+e+LIMKsJR70bYyhNUGgq2/JfAcqIvoFR
zzFjzGUPXMsY5NX5L2LQ+8IFrZKsL70KglZnXfCYwLru93Qkx0/Yc77JT2ABBSk
b3aZpB6J57vVDj3do6G0xCZ21zDGsJS2XbLAn4zvKf4MJZk=
```

```
EdSIhIioU4r7rd/9c446ZwTbw1MUcBQJfMPg+NccmBqixD7b6QDjynCy8SIwIVbb
0615XoFYC20UgDX1b10d65pHBf9ZjQCxQnQmJYaumxtf4z1s4dfjGRzNpZ5eWL0
6r/4ngGPoJVpjemEuunl1Ig423g7mNA2eymw0LIYkN5S0wCuaiFIFJ6GlazhgDEw
fpolu4usBC0mmQDo8dIm7A9+04orkjgTHY+GzYZSR+Y0fFukAj6KYXwidlNaLFMz
hriSqHKvoflShx8xpfywgVcvzft03PYkz6fiNJBonf6q8amaEsybwMbDqKwIX7e
SPY=
-----END CERTIFICATE-----
---
Server certificate
subject=C = MY, ST = PUTRAJAYA, L = PUTRAJAYA, O = JABATAN PENDIDIKAN POLITEKNIK DAN KOLEJ KOMUNITI, CN = *.mypolycc.edu.my
issuer=C = BE, O = GlobalSign nv-sa, CN = GlobalSign RSA OV SSL CA 2018
---
No client certificate CA names sent
Peer signing digest: SHA256
Peer signature type: RSA-PSS
Server Temp Key: X25519, 253 bits
---
SSL handshake has read 3322 bytes and written 389 bytes
Verification: OK
---
New, TLSv1.3, Cipher is TLS_AES_128_GCM_SHA256
Server public key is 2048 bit
Secure Renegotiation IS NOT supported
Compression: NONE
Expansion: NONE
No ALPN negotiated
Early data was not sent
```

HTTP Response Evidence

IPv4 HTTP (port 80)

HTTP Status	200
Connected IP	103.42.206.181
Connect Time	19.64 ms
TTFB	55.4 ms
Total Time	55.46 ms

Response Headers:

```
{
  "0": "HTTP/1.1 302 Found",
  "1": "Cache-Control: no-cache",
  "2": "Content-length: 0",
  "3": "Location: https://ambilan.mypolycc.edu.my/",
  "5": "HTTP/1.1 200 OK",
  "6": "Content-Length: 541",
  "7": "Content-Type: text/html",
  "8": "Last-Modified: Sat, 16 Dec 2023 15:55:01 GMT",
  "9": "Accept-Ranges: bytes",
  "10": "ETag: \"70a7533a3830da1:0\"",
  "11": "Server: Microsoft-IIS/10.0",
  "12": "X-Powered-By: ASP.NET",
  "13": "Date: Fri, 06 Mar 2026 09:11:22 GMT"
}
```

IPv4 HTTPS (port 443)

HTTP Status	200
Connected IP	103.42.206.181
Connect Time	4.26 ms
TTFB	18.21 ms
Total Time	18.22 ms

Response Headers:

```
[
  "HTTP/1.1 200 OK",
  "Content-Length: 541",
  "Content-Type: text/html",
  "Last-Modified: Sat, 16 Dec 2023 15:55:01 GMT",
  "Accept-Ranges: bytes",
  "ETag: \"70a7533a3830da1:0\"",
  "Server: Microsoft-IIS/10.0",
  "X-Powered-By: ASP.NET",
  "Date: Fri, 06 Mar 2026 09:11:22 GMT"
]
```

Connectivity Test Evidence

Test	Result
TCP Connect IPv4 → port 80	302 0.009461 0.020210
TCP Connect IPv4 → port 443	200 0.003634 0.022340

Test Node Network Evidence

Node Profile	dual stack
--------------	------------

Egress Connectivity

IPv4 Egress	76.13.221.142
IPv6 Egress	2a02:4780:5e:2789::1

Sysctl IPv6 Flags

net.ipv6.conf.all.disable_ipv6	0
--------------------------------	---

IPv6 Routes

```
2a02:4780:5e::/48 dev eth0 proto kernel metric 256 pref medium
fe80::/64 dev eth0 proto kernel metric 256 pref medium
default via 2a02:4780:5e::1 dev eth0 proto static metric 1024 pref medium
```

IPv4 Routes

```
default via 76.13.221.254 dev eth0 proto static
76.13.221.0/24 dev eth0 proto kernel scope link src 76.13.221.142
```